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ALTERED TIRES FOR AN ALTERNATIVE COVER MATERIAL

This guidance provides information concerning the use of altered tires as an alternative cover material in solid waste landfills. 329 IAC 10 allows alternative materials other than soil cover, if the alternative material or facility design provides a level of environmental protection equal to that provided by soil. IDEM has approved altered tires for the following uses:

- _ As an alternative daily cover material when used in compliance with 329 IAC 10-20-14.1.
- _ As liner protective cover placed directly above the leachate collection drainage layer.

The following information will assist those considering the use of altered tires as liner protective cover material:

1. Altered tires are only allowed for use as an alternative cover material in areas of a landfill that are serviced by a leachate collection system and composite liner complying with 329 IAC 10.
2. Altered tires must be clean with no deleterious materials or construction debris.
3. Altered tires used as liner protective cover must be square or rectangular and approximately 2 x 2 to 4 x 9 inches and must not have protruding wire strands longer than 1/4 inch.
4. Altered tires must be stored and handled in compliance with 329 IAC 10-20-14.1 and 329 IAC 12.
5. Altered tires must be obtained from sources that can verify, with documentation, that the tires have not been contaminated.
6. Grain size distribution analysis (ASTM D-422) and permeability testing (ASTM D-2434) are required for altered tires used for alternative protective cover. Results of these tests must be submitted to IDEM as part of the construction certification process.
7. Altered tire liner protective cover must be placed in a single lift by dozer, without compaction, and comply with 329 IAC 10-17-11. Altered tires must be placed on top of the twelve-inch thick leachate collection drainage layer. Under no circumstance may the leachate collection drainage layer be omitted.

The altered tire liner protective cover must be of sufficient depth to comply with the required lift thicknesses identified in 329 IAC 10-17-11 after consolidation of the altered tire material due to overburden pressure induced by the weight of landfill materials.

This guidance may be modified periodically to reflect changes in methodology. If you have any questions regarding this guidance, please contact the engineering staff at 317/232-8840.